

Facility Characteristics:

Michigan Department of Environment, Great Lakes, and Energy Remediation and Redevelopment Division

REQUEST FOR MIXING ZONE-BASED GSI CRITERIA

This form should be completed with appropriate information, documentation, or narrative to provide the necessary information for EGLE to process the request.

Original sources of information, if not supplied, should be appended or clearly referenced.

1. The name of the receiving surface water body and the location of the venting groundwater contaminant plume:

-	Γhis is a ☐ new ☐ increased ☐ ∈	existing load	ing.			
	Recreational Use: Yes No (if no, provide an explanation of conditions that make recreational use not applicable to site conditions):					
Þ	attach map					
2. The location, nature and chemical characteristics of the source of the groundwater contamination plume:						
р С С	3. The name, Chemical Abstract Service (CAS) Number, and worst case maximum concentration of contaminants predicted to reach groundwater/surface water interface (GSI). Generally the highest concentration of the contaminant found in the groundwater would be appropriate to represent the worst case maximum. If source contaminants have not yet reached the groundwater but are expected to do so, source concentrations should be identified and noted as such. Mixing zone-based GSI criteria will not be developed for contaminants that are not identified as having a reasonable potential to exceed water quality criteria.					
	Chemical or General Chemistry Parameter	CAS#	Predicted Worst Case Maximum GSI Discharge Concentration	Average Surface Water Concentration Upstream, if available		

4. The discharge rate of the venting groundwater contaminant plume in cubic feet per se	econd (cfs):
5. The location of other contaminant plumes entering the receiving surface water body, concentrations, if available:	their constituents and
6. If available:	
The lowest monthly 95 percent exceedance low flow at the discharge location:	cfs
The harmonic mean flow at the discharge location:	cfs
The 90dQ10 flow at the discharge location:	cfs
Source : EGLE Low Flow Database Determined by EGLE Hydrologic Studi	es Unit (memo attached)
Other (Describe):	
obtaining the information, I believe that the information is true, accurate, and complete. significant penalties for submitting false information. Authorized Signature:	
Name & Title:	
Authorized signatures:	
 For a corporation, a principal executive officer of at least the level of vice presid representative. If the designated representative is responsible for the overall op the groundwater is venting, the designation of the representative must be in write officer and provided to EGLE. For a partnership, a general partner. For a sole proprietorship, the proprietor. For a state, municipal, or other public facility, either a principal executive officer, city or village manager, or other authorized employee designated in writing from provided to EGLE. 	eration of the facility from which ting from a principal executive the mayor, village president,
If this is a new loading, or increased loading above previously authorized levels, a demonstration, which includes the information in numbers 8 and 9 below, or a defor an exemption under Rule 323.1098(7) or (8), is required.	
7. Please check whether there is:	
an antidegradation demonstration (information for 8 and 9) is included or	
a demonstration of qualification for an exemption (Refer to 323.1098(7) or (8) for this demonstration). Please identify who prepared the antidegradation or exemption demonstration:	for elements needed

8. This is a new or increased loading from venting groundwater. The social or economic development and the benefits to the area in which the waters are located that would be foregone if the new or increased discharge is not allowed include:
Employment increases:
Production level increases:
Employment reduction avoidance:
Efficiency increases:
Industrial, commercial, or residential growth:
Economic or social benefits to the community:
Other relevant factors:
If the new or increased loading includes the following bioaccumulative chemicals of concern (BCCs), Chlordane, 4,4'-Dichlorodiphenyldichloroethane, 4,4'-Dichlorodiphenyldichloroethylene, 4,4'-Dichlorodiphenyltrichloroethane, Dieldrin, Hexachlorbenzene, Hexachlorobutadiene, Hexachlorocyclohexanes, alpha-Hexachlorocyclohexane, beta-Hexachlorocyclohexane, delta-Hexachlorocyclohexane, Lindane, Mercury, Mirex, Octachlorostyrene, Polychlorinated biphenyls, Pentachlorobenzene, Photomirex, 2,3,7,8-Tetrachlorodibenzodioxin, 1,2,3,4-Tetrachlorobenzene, 1,2,4,5-Tetrachlorobenzene, Toxaphene, complete the following:
9. Please check whether:
☐ There is no BCC in the discharge. ☐ BCCs are included in the discharge (information for 10 and 11 is included)
10. The alternatives evaluated and the alternatives to be implemented that will comply with minimizing the discharge of the BCC by implementation of any cost-effective pollution prevention alternatives (such as source control) and techniques reasonably available that would eliminate or significantly reduce the discharge of the BCC are:

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11. If pollution prevention alternatives would not eliminate the increased discharge of the BCC, the person making the demonstration must evaluate alternative or enhanced groundwater treatment techniques that would eliminate the discharge of the BCC. The techniques that have a cost that are reasonable relative to the cost of treatment necessary to achieve generic GSI criteria must be implemented. The alternatives evaluated and the alternatives to be implemented that will comply with this requirement are:				
This form and the Response Activity Plan should be submitted to EGLE Remediation & Redevelopment Division District Office for the county in which the property is located, unless the response activity is related to a facility that is regulated by another EGLE Division. A district map is located at www.michigan.gov/EGLErrd . If regulated by another division, contact should be made with that division for information on where to submit the form and plan.				
For information or anistance on this publication, places and at the Japaneses), the supplied FOLE For incompantal Assistance				

For information or assistance on this publication, please contact the (program), through EGLE Environmental Assistance Center at 800-662-9278. This publication is available in alternative formats upon request. EGLE does not discriminate on the basis of race, sex, religion, age, national origin, color, marital status, disability, political beliefs, height, weight, genetic information, or sexual orientation in the administration of any of its programs or activities, and prohibits intimidation and retaliation, as required by applicable laws and regulations.

This form and its contents are subject to the Freedom of Information Act and may be released to the public.